Online Test Series Details for GATE 2025 - 26
Branch : Electronics & Communication Engineering

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Test Name
Topic Wise Tests Total 27 tests
Subject Wise Tests (Basic Level) Total 10 tests
Subject Wise Test (Advance Level) Total 10 tests
Multiple Subjects Tests Total 12 tests
Full Length Mock GATE Total 10 tests

Topic-wise Tests

Each test carries 30 marks and 45 minutes duration.

Test consists of 10 one mark questions and 10 two marks questions.

	Topic	Subject
Test 1	Basic Concepts of Network, Network Theorems, Two port Network	**Network Theory**
Test 2	Transient & Steady State Response, Phasor & resonance, Complex Power, Magnetic Coupling	

Topic		Subject
Test 1	Complete analysis of signals and systems, LTI Systems, Convolution, Laplace transform, Continuous time, Fourier transform and Fourier series sampling theorem and applications	**Signals & Systems**
Test 2	Transient & Steady State Response, Phasor & resonance, Complex Power, Magnetic Coupling	

Topic		Subject
Test 1	Basics of Control Systems, Block Diagram & Signal Flow Graph, Time Response Analysis, Routh Stability Criterion, Root Locus Diagram	**Control Systems**
Test 2	Polar Plot & Nyquist Stability Criterion, Bode Plot, Frequency Response of Second Order System, State Space Analysis, Controllers & Compensators	

Topic		Subject
Test 1	Linear Algebra, Differential Equation, Probability, Vector Analysis	**Engineering Mathematics**
Test 2	Differential Calculus, Integral Calculus, Mean Value Theorem, Complex Analysis, Statistics	

Topic		Subject
Test 1	Quantitative Aptitude	**General Aptitude**
Test 2	Verbal Aptitude and Spatial Aptitude	

Topic		Subject
Test 1	Logic Gates, Boolean Algebra, K-Maps, Number system, Binary Codes & Complement Form, Combinational Circuits	**Digital Electronics**
Test 2	Sequential Circuits, DAC & ADC, CMOS Implementation of Logic Gates, Semiconductor Memories Machine instructions and addressing modes, ALU, data-path and control unit, instruction pipelining	

Topic		Subject
Test 1	Diode Family : (Clipper, Clamper, Equivalent Circuit, AC Model, Rectifiers, Zener Diode as Voltage Regulator) BJT Biasing and Amplifier (Low and High Frequency)	**Analog Electronics**
Test 2	OP-Amp & Its Applications, MOSFET Amplifier, Oscillator and Feedback Amplifier	

Topic		Subject
Test 1	Amplitude and Angle Modulation & Demodulation, Super Hetrodyne Noise in AM & FM, Random Variable & Random Process	**Communications System**
Test 2	PCM, DPCM, Digital Modulation Scheme (ASK, PSK, FSK, QAM), and Its Bandwidth, ISI	
Test 3	Information Theory, MAP, ML deduction, Match Filter Receiver, SNR, BER, CRC, Hamming Code, Error Correction and Error Deduction	

Topic		Subject
Test 1	Differential and Integral Forms Maxwell Equation and Their Interpretation, Boundary Conditions, Wave Equation, Poynting Vector. Plane Waves and Properties: Reflection and Refraction, Polarization, Phase And Group Velocity, Propagation Through Various Media, Skin Depth.	**Electromagnetics**
Test 2	Characteristic Impedance, Impedance Matching, Impedance Transformation, S-parameters, Smith Chart. Rectangular and Circular Waveguides, Light Propagation In Optical Fibers, Dipole and Monopole Antennas, Linear Antenna Arrays.	

Topic		Subject
Test 1	Basic Concept of Semiconductor, Energy Bands In Intrinsic and Extrinsic Semiconductor, Equilibrium Carrier Concentration, Direct And Indirect Band-gap Semiconductors, Generation and Recombination of Carriers, Poisson and Continuity Equations, diffusion Current, Drift Current, Mobility And Resistivity	**Electronics Devices**
Test 2	PN Junction and Bias Concept of Zener Diode (Except Regulation), Solar Cell, LED, Photo Diode	
Test 3	Detailing of MOSFET (Except Amplifier), Basics of BJT, MOS Capacitor, CMOS Inverter	

Topic-wise Tests

Each test carries 25 marks and 45 minutes duration.

Test consists of 10 one mark questions and 10 two marks questions (MSQ/MCQ/NAT).

Subjects	No. of Tests
Network Theory	02
Signals & Systems	02
Control Systems	02
Engineering Mathematics	02
General Aptitude	02
Communication Systems	04
Electromagnetic Field Theory	02
Digital Circuits	03
Analog Circuits	04
Electronic Devices	04

Basic Level Subject-wise Tests

Each test carries 50 marks and 90 minutes duration.

Test consists of 10 one mark questions and 20 two marks questions.

Subjects	No. of Tests
Communication Systems	01
Electromagnetic Field Theory	01
Digital Circuits	01
Network Theory	01
Signals & Systems	01
Control Systems	01
Analog Circuits	01
Electronic Devices	01
Engineering Mathematics	01
General Aptitude	01

Advance Level Subject-wise Tests

Each test carries 50 marks and 90 minutes duration.

Test consists of 10 one mark questions and 20 two marks questions.

Subjects	No. of Tests
Communication Systems	01
Electromagnetic Field Theory	01
Digital Circuits	01
Network Theory	01
Signals & Systems	01
Control Systems	01
Analog Circuits	01
Electronic Devices	01
Engineering Mathematics	01
General Aptitude	01

Combined Subjects Tests

Each test carries 50 marks and 90 minutes duration.

Test consists of 10 one mark questions and 20 two marks questions.

Subjects	No. of Tests
Communication Systems + EMT	Moderate Level 1 Advance Level 1
Electronic Devices + Analog Electronics	Moderate Level 1 Advance Level 1
Engineering Mathematics + General Aptitude	Moderate Level 1 Advance Level 1
Network Theory + Control Systems	Moderate Level 1 Advance Level 1
Signals and Systems + Digital Electronics	Moderate Level 1 Advance Level 1

Full Length Mock GATE (Tentative Details)

(Each test carries 100 marks and 3 hours duration) as per GATE Pattern.

Subjects
Full Length Mock - 1
Full Length Mock - 2
Full Length Mock - 3
Full Length Mock - 4
Full Length Mock - 5
Full Length Mock - 6
Full Length Mock - 7
Full Length Mock - 8
Full Length Mock - 9
Full Length Mock - 10